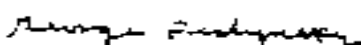


SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS <i>OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, AND 30</i>				1. REQUISITION NUMBER		PAGE 1 OF 4	
2. CONTRACT NO. W911XK-05-P-0086		3. AWARD/EFFECTIVE DATE 26-Sep-2005		4. ORDER NUMBER		5. SOLICITATION NUMBER W911XK-05-T-0074	
7. FOR SOLICITATION INFORMATION CALL:		a. NAME GEORGE FEDYNSKY				b. TELEPHONE NUMBER (No Collect Calls) 313 226-6356	
9. ISSUED BY CONTRACTING DIVISION DETROIT DISTRICT, USAED P.O. BOX 1027 DETROIT MI 48231-1027 TEL: (313) 226-5148 FAX: (313) 226-2209		CODE W911XK		10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED <input type="checkbox"/> SET ASIDE: % FOR <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> HUBZONE SMALL BUSINESS <input type="checkbox"/> 8(A) NAICS: 333912 SIZE STANDARD:500		11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE 13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700) 13b. RATING 14. METHOD OF SOLICITATION <input checked="" type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP	
15. DELIVER TO LOCK OPERATIONS BRANCH ST. MARY'S FALLS CANAL SAULT STE. MARIE MI 49783		CODE		16. ADMINISTERED BY SEE ITEM 9			
17a. CONTRACTOR/OFFEROR INGERSOLL-RAND COMPANY N58 W14696 SHAWN CIRCLE MENOMONEE FALLS WI 53051 TEL. (262) 252-4610		CODE 0KPW8 FACILITY CODE 0KPW8		18a. PAYMENT WILL BE MADE BY U S ARMY CORPS OF ENGINEERS FINANCE AND 5700 WASP AVENUE MILLINGTON TN 38054			
<input type="checkbox"/> 17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER		18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a. UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM					
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/ SERVICES			21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
	SEE SCHEDULE						
25. ACCOUNTING AND APPROPRIATION DATA See Schedule						26. TOTAL AWARD AMOUNT (For Govt. Use Only) \$186,452.00	
<input type="checkbox"/> 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1. 52.212-4. FAR 52.212-3. 52.212-5 ARE ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED							
<input type="checkbox"/> 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED							
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES <input type="checkbox"/> TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.				29. AWARD OF CONTRACT: REFERENCE <input type="checkbox"/> OFFER DATED . YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:			
30a. SIGNATURE OF OFFEROR/CONTRACTOR				31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)		31c. DATE SIGNED	
						26-Sep-2005	
30b. NAME AND TITLE OF SIGNER (TYPE OR PRINT)		30c. DATE SIGNED		31b. NAME OF CONTRACTING OFFICER (TYPE OR PRINT) GEORGE FEDYNSKY / ADDED BY SUMI TEL: 313 226-6356 EMAIL: George.Fedynsky@lre02.usace.army.mil			

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS (CONTINUED)					PAGE 2 OF 4	
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/ SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT	
	SEE SCHEDULE					
32a. QUANTITY IN COLUMN 21 HAS BEEN <input type="checkbox"/> RECEIVED <input type="checkbox"/> INSPECTED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED: _____						
32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE			
32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE			32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE			
			32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE			
33. SHIP NUMBER	34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR	36. PAYMENT	37. CHECK NUMBER		
<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL			<input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL			
38. S/R ACCOUNT NUMBER	39. S/R VOUCHER NUMBER	40. PAID BY				
41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT 41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		41c. DATE	42a. RECEIVED BY (<i>Print</i>)			
			42b. RECEIVED AT (<i>Location</i>)			
			42c. DATE REC'D (YY/MM/DD)	42d. TOTAL CONTAINERS		

Section SF 1449 - CONTINUATION SHEET

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	COMPRESSED AIR DRYER FFP INGERSALL-RAND TZB-7500 or equal. Delivery is 12 weeks from the date of the date of the order. FOB destination is confirmed.	1	Each	\$186,452.00	\$186,452.00
NET AMT					\$186,452.00
ACRN AA Funded Amount					\$186,452.00

FOB: Destination

ACCOUNTING AND APPROPRIATION DATA

AA: 96X31230000 082427 2570K6183K017380 NA 96203
 AMOUNT: \$186,452.00

REQUIREMENT

Replacement Air Dryer for Sault Locks Air System

The air system at the Sault Locks currently consists of 3 Ingersoll-Rand, 300 Hp units, Screw Compressors, 1 Joy Compressor, approximately 100 Hp unit, and one air dryer. This air system is located between the second and third lock, east of the Davis Building. It currently supplies air to the gate bubblers on the locks and for tool operation for periodic maintenance. Operation of the air compressors occurs during the winter months from December to May. Currently these compressor provide 5450 CFM. There are future plans for either upgrading the existing compressors or adding an additional compressor to accommodate an additional bubble system(s). Future expansion could go up to 10,000 CFM.

The problem is the current dryer is a deliquescent. The deliquescent dryer is not providing the correct dew point for our application and as a result we are getting water in lines.

The solution is to replace the current dryer with a dessicant type, I-R TZB-7500 model or equivalent, that will give a dew point of -40 deg F, pre and after filters and a 3 valve bypass, and will consume no purge air. Any Controls used on the air dryer to control draining must be programmable and automatic (this system must be able to run 24/7 remotely-no operator intervention). The contractor is highly suggested to visit on-site. The dryer is in a limited access area. The air dryer is located in the space noted 'Dryer Pad' on drawing number "DC-122-3". The roof is tapered from North to South, dimensional height of the air dryer will be no taller than 120". The fill ports for the air dryer will either have 24" of clearances from the top of the tank to the ceiling or will have fill ports located on the side of the air dryer at 105" (dimension from the floor to the side of the tank). The contractor will be required to provide a design of their system. Contractor will provide a delivery schedule that will be approved by the Government. Design will show line items (part numbers). Contractor is responsible for a 1-day training class (for operation and

maintenance) and will be there for start-up. The contractor will provide a manual outlining a PM schedule as well as components and their specifications. POC for Mechanical Issues is Joseph Pinal, 906 635 3445.

Electrical:

A. Controls used on the air dryer to control draining shall be programmable and automatic. This system shall operate 24/7. No operator intervention required.

B. PLC of preference is Allen-Bradley. Ladder program shall not contain any password protection and shall be accessible to USACE. PLC shall have EEPROM backup or equivalent. The PLC shall have the ability to communicate to an Intellution iFix SCADA system via ControlNet. The PLC shall support the ControlNet Protocol via a dedicated communication port on the PLC or by a communication card that installs within the processor resident chassis. Communication card shall be manufactured by the manufacturer of the PLC and listed for use with the PLC. USACE shall be responsible for connecting ControlNet to the port and configuring the SCADA system. If PLC is not a ControlLogix processor, then supplier shall provide one copy of developer software for the PLC. Software shall communicate to PLC via ControlNet and be compliant to Microsoft XP.

C. PLC program shall be supplied on cd-rom and shall be commented.

D. Print shall be included that illustrates how all components are to be electrically connected. Electronic copy shall be provided. Shall be done in Microstation "dgn" file format.

E. Manufacturer of preference for electrical disconnect equipment is Square-D.

F. Any Motor Controller shall have Motor overload protective devices of type solid state, minimum of class 10, separate from the motor and located within the motor controller. Motor overload protective devices shall be manually reset upon an overload trip. Each Motor shall have a run indicator light, off indicator light, and magnetic starter.

G. All electrical components shall be used and installed per manufacturers specifications.

H. All electrical components shall be used according to their UL Listing.

I. Shall conform to NEC-2005. Motors shall conform to continuous-duty motor

J. Designed for LockOut / Tagout (LOTO). Design shall enable maintenance personnel to electrically isolate system by applying a lock within site of the equipment. LOTO shall not require an electrician.

K. Shall supply all electrical equipment to connect air dryer to 4160 VAC switchgear. This would include the transformer, conductors, and peripheral items. This equipment shall be of type and sized per manufacturers guidelines. Transformer shall be located outside. The 4160 VAC breaker shall be provided by USACE. Include 300 ft of primary conductor, and 100' of secondary conductor. USACE responsible for transformer pad and all trenching.

L. POC for electrical issues is Mr. Walt Hart, 906.635.3468.